ATTR Syntax: Attr filename [permissions] Usage: Examine or change the security permissions of a file Opts: -perm = turn off specified permission perm= turn on specified permission -a = inhibit rms: d - directory file s - nd to owner w - write permit AUSTRALIAN or read permit to public te permit to public BACKUP to own DW -Syntax ge: Copies all data from **0S9** one de ead error occurs writes BASICO9 Syntax: single Basic0 BUILD Syntax: Build NEWSLETTER filenar s from standard input CHD S nge working directory to specifi Usage: Change execution directory to specified path tar Syntax Cmp filename! filename? Usage: File comparison utility COBBLER Syntax: Cobbler devname Usage: Creates OS-9 bootstrap file from current boot CONFIG n disks COPY data from Syntax one fil E Syntax: Opts: t = Date |t EDITOR ame> Usage specify : Check directory Gordon Bentzen for wor sters -m 8 Odin Street = save of unused cluster niv - o =SUNNYBANK Qld 4109 print <devname> Del -x filenan 3 : -- x = (07) 345 - 5141delete x: Deldir yntax: Dir directo e x the file x=print Usage: Display s converted characters to standard output DSAVE Syntax: Dsave [-opts] [dev] [pathname] Usage: Generates procedure file to copy all files in a directory system Opts: -b make a system disk by using OS9boot if present -b=<path> = make system disk do not using pat makdir process b JULY 1990 o num K command tandard ECHO Syn oriented output El s text error messages for given error numbers EX Syntax: ex <modname> Usage: Chain to the given module FORMAT Syntax: Format <devname> Usage : Initializes an OS-9 diskette Opts ; R - Ready L - Logical format only "disk name" 1/2 number of sides 'No of

# AUSTRALIAN OS9 NEWSLETTER Newsletter of the National OS9 User Group Volume 4 Number 6

EDITOR : Gordon Bentzen

HELPERS : Bob Devries and Don Berrie

SUPPORT : Brisbane OS9 Level 2 User Group.

I'm trying to think but nothing happens!

What would you think of your favourite computer if it kept on saying this to you? The above phrase is a direct steal from a recently acquired public domain disk which included the archived file "play.ar". The PLAY command, written by Kevin Darling and modified by Brian C. White, will play most Mac and Amiga sound files. The command "play think" will result in that phrase coming from your monitor speaker. GREAT!

Yes, we do have more public domain programmes thanks to the efforts of Don Berrie, Bob Devries and the cooperation of members of overseas OS9 user groups. The files obtained are mostly in the AR archive format. The AR utility, by Carl Kreider, is loosely modelled on the archive utility in the Kernigan & Plauger book, "Software Tools" and its purpose is to gather together files into a common file to keep related files together. The files included in an archive typically include the executable module, source code .doc files, readme and any other related instruction files.

All the public domain library files are available by following the usual procedure. That is, mail your FORMATTED disks to address shown on the newsletter cover, include payment of our copy fee of \$2 per disk (all disk formats 35ss, 40ds and 80ds attract the same charge) plus payment for return postage. We can also copy to three and half inch OS9 disks if required, or even MSDOS 360k disks (if you really want to do that).

We do incur costs in obtaining PD material, even though there may be no direct charge for the programmes, and the copy fee is designed to share these costs.

We do manage to deal with your requests for disk copies fairly promptly most of the time, however due to other commitments, a week or so may sometimes slip by. The easier you make it for us, the quicker we can return mail your disks. Please include a self addressed label, postage stamps for return mail and use a mailer or package which we can reuse for return. This means that we can repack the copied disks back in your mailer, stick on your address label and stamps, and pop it in a mail box.

Most of the PD is stored on 80 track double sided disks, and if we can simply do a backup, this also speeds things up.

Now the question on your lips is; What PD programmes do we have and how many disks are needed? Very good question! The problem of indexing and listing the programmes in a meaningful way is a problem to which we do not have an ideal answer at this point.

The newly acquired material was sourced from the European OS9 User Group and came on twenty-eight (28) 40tr OS plus three (3) 80tr OS disks. There appears not to be any particular order to the type of file, and files are mostly in the root directory of each disk. We will need a period of grace to sort through these disks if particular programme types are sought. We are, however, most grateful for the material.

We also have a number of disks from the U.S. DS9 User Group in the original format, Disk1 through Disk42 (with a couple missing). These were issued on 35tr single sided disks, and are now in the library on 80 track disks under a directory for each issue, eleven 80tr disks in all. The same files have also been sorted into categories, eg. Word Processing, Communication etc., nine 80tr disks in all. These disks are now a few years old and do not contain any programmes specifically for level 2. Some OS9 68k is included.

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All in all there is enough material to keep anybody busy for months even if it is somewhat of a lucky dip at the moment. We will include some comment and review of the more interesting programmes in our future newsletters for those who wish to be selective.

"Things are certainly starting to happen in the DS9 World!" That was the opening statement of last month's editorial which dealt with new DS9 machines. The new DS9 programmes being advertised overseas together with the increasing volumes of PD software certainly add weight to that statement.

To keep the ball rolling we can add our bit, even if it seems but a drop in the ocean. We desperately need Australian produced commercial programmes and public domain material. The aim of the National OS9 User Group is to promote the use of OS9 on a non-profit basis, so please assist us by sharing any programme of your own which you are prepared to release as public domain or shareware. Many of our members want to see more BasicO9 programmes. Can you help?

Also to keep the ball rolling, and to maintain supply of PD software from overseas sources, we do need to send something in return. Your little BasicO9 programme or utility could spread throughout Australia, Europe and America.

SUBSCRIPTIONS:~ Membership of the National DS9 User Group is still only \$18 per annum. Sincere thanks to those who have already sent a cheque for membership renewal.

We maintain a common expiry date of end August each year, and we do need your continued support to avoid a rise in

PLEASE, PLEASE, PLEASE take the time to include a short note with your subscription renewal and tell us what you would like to see in this newsletter; also tell us what you don't like. Please make your cheque payable to "National OS9 User Group"

JUST A REMINDER:- We do not accept PAID advertising (subscriptions must cover all costs) however, we will include ads from members for locally produced hardware or software, and ads (unpaid) from commercial enterprises, only if we consider such an ad would be "a service to members".

I'm trying to think but STILL nothing happens!

Cheers, Gordon.

# CC360 AND SHELLPLUS

The modified shell programme, Shellplus (Version 2.xx and onwards) gives us all kinds of nifty opportunities to get better productivity from our CoCo DS9 systems. One of those nice things that shellplus offers is the ability for the user to set a search path for executable files. This allows the system to examine a number of directories, not just the current execution directory, for executable files.

Similarly, the user has the opportunity to use a prompt other than the standard OS9 system prompt. It is possible for the user to actually modify the shellplus executable file, and hardcode the desired prompt within the shellplus code. However, we are all aware of the problems caused by hard coded device names, parameters etc, and of course they all have the drawback that they then cannot be easily changed.

Because of the way that OS9 Level 2 for the CoCo3 forks the startup file from it's specific sysgo module (called cc3go), unless you actually hard coded the paths into that module, you would not normally be able to have any paths or custom prompts set, on your /Term device.

To attempt to get around this limitation, we are now able to offer, as part of our public domain library, an archived set of files containing a replacement module for cc3go, written by Bob Devries and Don Berrie. This new module tries to open a one-line file called /dd/SYS/config.os9, and expects to find in that file the parameters required for the shell which it opens on the default device (normally /Term).

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Included in the archive is also a sample config.os9 file as an example. If the file is cannot be found, an error message is printed. Similarly, if the system cannot read the file, an error message to indicate this problem is also printed. In either case, the system then simply uses the standard default parameter i=/l as in the original cc3go module.

For those users who have a Burke & Burke hard drive with the XT-ROM installed in the interface, and wish to use the alternate boot feature of that system, we have also included a module called cc3go.alt. This module looks for files named /dd/SYS/config.alt, altstart, and altshell rather than /dd/SYS/config.os9, startup and shell. This will allow you to have two totally different bootfiles on your hard drive.

The source code, fully commented, for both modules is also included.

The usual National OS9 Users Group copying conditions apply. Any comments or requests for further information should be directed to the authors:

Bob Devries (07) 3727816 Don Berrie (07) 375 3236

#### HOW COME MY BOOT PROCESS TAKES SO LONG?

Ever wanted to know what is happening while you are sitting there looking at that green VDG screen with OS9 BOOT written in the middle of it? Well read on.

This information comes from the OS9 "super guru" Kevin Darling, and is reproduced with thanks.

The OS9 Boot sequence is as follows:

The DOS routine in RSDOS, or some other type of custom ROM, points to a track (normally Track 34) on a disk drive, and reads that track, which has REL, BOOT, and OSSP1.

REL sets up the main GIME registers and the system crash/reset vectors, and then bypasses Boot to execute the OS9P1 module.

OS9p1 sets up Direct Page variables, F\$.... system calls, finds free RAM, and scans RAM for module headers. It then inserts found modules (at this stage Rel, Boot and OS9p1) into the module directory, and looks for the Init module. OS9p1 can't find Init, because it has not as yet been loaded from the disk, so it does an internal F\$Boot. F\$Boot calls the Boot module, which \timeshopefully\times loads the bootfile from disk. F\$Boot is not particularly smart, and amongst other things, requires that the bootfile is in one single contiguous block. OS9p1 then links to OS9p2 and jumps to it.

OS9p2 installs its F\$calls, and then looks in Init for its default execution and data directories, and attempts to change to them using I\$ChgDir. I\$ChgDir fails because no I\$calls are as yet installed, so OS9p2, by default, finds IOMan and initializes it, and I\$ChgDir is tried again. OS9p2 opens a path to the default device (usually /term, but hard coded into the Init module.)

OS9p3 is then looked for, and, if found, it is called as a subroutine. (If OS9p4 is present it is called from OS9p3 ... &etc)

Once the user defined extensions to OS9 (OS9p3, OS9p4 ....) have been called and executed, OS9p2 then checks Init for the initial process name (CC3Go), and executes it using an F\$Fork call. It then does an F\$MProc call which doesn't return.

CC3Go prints the "OS9 LEVEL 2 .... " signon message, and sets the default time (setime causes OS9p2 to find the Clock module and init it at this time), which is also hard coded into the CC3Go module.

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CC36o attempts to change directories to /h0. If successful, it modifies the system process descriptor to also use /h0 (for calling in grfdrv later, etc). CC36o tries to fork "shell startup" and waits until the startup process has completed. CC36o then tries to fork "autoex" and if found will sit and wait until the execution of this programme terminates.

CC3Go then <u>chains</u> (which means that it terminates itself, and starts a new process) to the Shell on the default window defined in the Init module. (This shell is not started from the startup procedure, hence only the preset shell parameters, which are hardcoded into CC3Go, are set for this shell).

Then, you finally get control of the system. Whew!

BUILDING A BOOT DISK......Part 2

If you followed part ! in last month's News Letter, you should have a system disk that is configured to take advantage of the maximum capacity of your disk drives.

As promised I will explain how to build a customized system disk using only the modules supplied on the original Level 2 system disk....So Boot up your system. Make sure you are using a copy of your system disk in drive /d0. We need to create a MODULES directory on this disk and copy into it the modules needed for your System Disk.

Makdir /d0/MODULES

By now you should have decided which modules you require in your Boot file, if not, make yourself a list now. Place a backup copy of your Boot-Config-BasicO9 disk in drive /dl and copy the files you require into the modules directory on the disk in /dO.

chd /d0/modules
copy /d1/modules/CC3Disk.dr CC3Disk
copy /d1/modules/clock.50hz Clock
copy /d1/modules/d0\_40d.dd d0
copy /d1/modules/dd\_40d.dd dd

etc....

Until you have all the modules required to create your new boot disk. It is a bit tedious, but once done, you shouldn't have to do it again. You can add, delete or change modules as your system requirements change. You will have noticed that I left the extensions off the files I copied, they are not needed.

While I did state that we wouldn't be using anything that was not on the original system disks supplied by Tandy, should you have the "save" command from Level 1 or from the Development System disks, then to save some time I would suggest you save the modules from memory that you require, especially those modules that have been patched.

chd /d0/modules save d0 save d1 save dd

etc.....

The modules directory can contain as many files as you wish, it is not restricted to only the files required on a particular Boot Disk. It will be a permanent source for creating different Boot Disks when required.

Now we need to create two files, the first is to be a file called "bootlist", which will contain a list of the modules to be included in the new os9boot file. The other is the procedure file that will create the new DS9Boot file, We will call this file "new\_boot". These files can be created by using the Build command or with Edit, or as I do with a word processor.

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The list of module names in "bootlist" should be in the order they are wanted in the Boot file.

Bootlist.....

DS9p2
IDMan
RBF
CC3Disk
D0
D1
DD

Once you have created this bootlist in the data directory of /d0, the next thing is to create the procedure file new boot which must also reside in the data directory of /d0.

Procedure New\_Boot

t
tmode .1 -pause
chd /d0/modules
os9gen /d1 </d0/bootlist
chd /d0
dsave /d0 /d1 ! shell
tmode .1 pause
-t

Now with a formatted disk in /dl type new\_boot then press enter and a new bootdisk will be created that includes only those files listed in Bootlist. The two lines Chd /d0 and dsave /d0 /dl ! shell can be removed if you don't want the directories and files on /d0 copied to the new boot disk. You can copy these files from any source you choose, bearing in mind that shell and GrfDrv must be in the commands directory otherwise the boot will fail. Once the boot disk is completed, you can boot up with the new system disk and then make the necessary patches etc. according to last months' article.

During the writing of this article I have come to realise just how far we have progressed since OS9 Level 2 was first released. An overview of the modifications being used by the Brisbane User Group Members might be in order.

Regards Rob Unsworth.

#### 

Check Book Programme.

Programme by Dale L. Puckett, comments by Bob Devries.

Here's a short BasicO9 programme to assist in balancing your checkbook. The programme came to us by courtesy of the European OS9 Usergroup, and originated from Compu-Serve Information System. The source is very short and easy to understand. It requires no special software (except BasicO9 of course) and should work on both level one and level two OS9 systems.

Bob Devries.

#### PROCEDURE Checkbook

0000 (\* Something to Help balance your checkbook \*)
002E
002F DIM answer clearcode STRING[1]

002F DIM answer,clearcode:STRING[]] 003F DIM balance,service\_charges:REAL

004A DIM total\_checks,outstanding\_deposits:REAL

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```
0055
          DIM number_of_checks,number_of_deposits:INTEGER
0060
0061
          clearcode:=CHR$($00)
006A
006B
          PRINT clearcode
0070
0071
          PRINT
0073
          INPUT "What was the balance on the statement? ",balance
00A2
          INPUT "What was the total of all service charges? ",service_charges
00D5
00D6
          PRINT clearcode
OODB
0000
          number_of_checks:=-1
00E4
          total checks:=0
          amount (=0
00EC
00F4
00F5
          RUN getchecks(number_of_checks,total_checks,amount)
0109
010A
          PRINT clearcode
010F
0110
          number_of_deposits:=-1
0118
          outstanding_deposits:=0
0120
          amount:=0
0128
0129
          RUN getdeposits(number_of_deposits,outstanding_deposits,amount)
0130
013E
         PRINT clearcode
0143
0144
         PRINT
0146
         PRINT "Your final balance should be $";
          PRINT USING "R8.2", balance+outstanding_deposits-(total_checks+service_charges)
016A
0184
         PRINT \ PRINT \ PRINT
018A
         FRINT "From your statement: "
01A3
         PRINT
01A5
         PRINT "A balance of $";
01B9
         PRINT USING "R8.2", balance;
0108
         PRINT "minus a service charge of $";
         PRINT USING "r9.2", service_charges;
01E9
01F8
         PRINT " = $";
0202
         PRINT USING "r8.2", balance-service_charges
0214
         PRINT
0216
         PRINT "You had "; number_of_checks; " outstanding check(s), totalling $";
0240
         PRINT USING "r8.2", total_checks
         PRINT "and "; number_of_deposits;
0258
0268
         PRINT * deposit(s) outstanding, totalling:
0294
         PRINT USING "r8.2", outstanding_deposits
02A2
         PRINT
02A4
02A5
02A6
         INPUT "Would you like to balance another statement: (Y)es or (N)o? ",answer
02EA
02EB
         IF answer="Y" OR answer="y" THEN
0300
            RUN checkbook
0304
         ELSE
0308
            PRINT
030A
            PRINT "Hope we were able to help you with your headache."
033F
          ENDIF
0341
```

```
0342
           END
0344
PROCEDURE getchecks
0000
           PARAM number_of_checks:INTEGER
0007
           PARAM total_checks,amount:REAL
0012
0013
           PRINT
0015
           PRINT "Now we need to have you list the amount of each check"
           PRINT "that was not listed on the bank's statement."
004E
007E
           PRINT
0080
           PRINT "When you have listed all the checks enter a value of zero."
00BE
           PRINT
0000
0001
0002
           REPEAT
0004
             INPUT "Amount of check? ",amount
OODD
             number of checks:=number of checks+1
00E8
             total checks:=total checks+amount
00F4
          UNTIL amount=0
0100
0101
           END
PROCEDURE getdeposits
           PARAM number_of_deposits:INTEGER
0000
0007
           PARAM outstanding_deposits,amount:REAL
0012
0013
           PRINT
0015
           PRINT "You must now list each deposit that did not show up"
           PRINT "on the bank statement."
0040
0066
           PRINT
0068
0069
           PRINT "Enter a zero when all your deposits have been entered."
00A3
           PRINT
00A5
00A6
00A7
           REPEAT
00A9
             INPUT "Amount of deposit? ",amount
             number of deposits:=number of deposits+}
00C4
00CF
             outstanding deposits:=outstanding deposits+amount
0008
           UNTIL amount=0
00E7
           END
```

# 

Window Directory programme by Kevin Darling, text by Bob Devries.

More Basic 09 you say? Well OK. Here's a little utility written by Kevin Darling, and obtained by me via the European OS9 community from the Compu-Serve Information System. The programme displays a directory of the currently opened or INIZ'd windows in your system. It tells you the entry number, the window type, which block the screen ram uses, the current working area, and the sixteen palette register contents. I have found it useful to find out what colours are set in each window. The programme is not very large, and uses various OS9 system calls via the 'SysCall' utility.

Bob Devries.

```
PROCEDURE WDir
0000
          REM Window Directory
0013
          REM Copyright by Kevin Darling Aug 87
0037
          REM For Each Window WDir Shows:
0055
          REM Window table entry #
          REM Window type
0060
007A
          REM Block numbers used, with offset into block if I block
0082
          REM Backlink window table # if overlay, and overlay buffer
00EB
          REM block begin number.
0101
          REM Window begin and size (col,row) numbers
012B
          REM Window current cwarea being and size
0152
          REM Palette values (0-15) for that screen
017A
          REM Really should be rewritten with recursive calls to
01AF
          REM show all parent backlinks of multiple overlay W's.
01E4
          REM Set Up Vars and Define Constants:
0208
          BASE 0
020A
          DIM temp:BYTE
0211
          DIM w: INTEGER
0218
          OIM WNUm: BYTE
021F
          DIM sctab: INTEGER
0226
          TYPE register=CC:BYTE; D:INTEGER; DP:BYTE; X,Y,U:INTEGER
0248
          DIM reg:register
0254
          DIM WE(64):BYTE
0260
          DIM SysPrc(512):BYTE
0260
          DIM D_DevTbl:INTEGER
0273
          TYPE table=V_Driv,V_Stat,V_Desc,V_FMgr:INTEGER; V_Usrs:BYTE
0290
          DIM devtable(32):table
029E
          DIM DryName:STRING[5]
02AA
          DIM DevName:STRING[4]
0286
          DIM M Name: INTEGER
02B0
          DIM cc3io:STRING[5]
0209
          DIM SC(32):BYTE
0205
          DIM typ$(9)
02DF
          DIM F GPrDsc:BYTE
02E6
          DIM F CpyMem: BYTE
02E0
          cc3io="CC3I"+CHR$($CF)
02FD
          F_GPrDsc=$18
0305
          F CpyMem=$1B
0300
          FOR n=0 TO 8
031F
           READ typ$(n)
0329
          NEXT n
0334
          DATA "Same Screen"
0346
          DATA "40 Col Text"
0358
          DATA "80 Col Text"
          DATA "Bad"
036A
0374
          DATA "Bad"
          DATA "640 Two Color"
037E
          DATA "320 Four Color"
0392
03A7
          DATA "640 Four Color"
0380
          DATA "320 Sixta Color"
0302
          REM Get SysPrc Descriptor:
03EB
          reg.D=256
03F7
          reg.X=ADDR(SysPrc)
0405
          RUN Syscall(F_6PrDsc,reg)
0414
          REM Get Offset in System Map to Device Tables:
0441
           destination=ADDR(D DevTbl)
0440
          count=2
          offset=$80
0454
```

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```
0450
         GDSUB 1000
0461
         REM Now Use that Info to Get the Device Table Itself:
0495
         destination=ADDR(devtable)
04A0
         count=SIZE(devtable)
04AB
         offset=0_DevTbl
04B4
         GDSUB 1000
04B8
         REM Main Loop:
0405
         REM Check Each Device Entry for CC310 Driver.
         REM If it is, then Get the Window Entry # From Static Storage.
04F1
052E
         REM (unless type <> window, then treat as VDG)
         REM (and skip deleted entries)
0558
0578
         FOR DE=0 TO 31
058A
           REM Check for Entry in Use:
05A4
           IF devtable(DE).V_Usrs<>0 THEN
0587
             REM Get Driver Name Offset In Descriptor:
05DF
             destination=ADDR(M_Name)
05EA
             count=2
05F2
             offset=devtable(DE).V_Driv+4
0605
             GOSUB 1000
             REM And Then the Name Itself:
0609
             destination=ADDR(DrvName)
0625
0630
             offset=M_Name+devtable(DE).V_Driv
0644
             count≃5
0640
             GDSUB 1000
             IF DrvName=cc3io THEN
0650
065D
              60SUB 500
             ENDIF
0661
0663
          ENDIF
         NEXT DE
0665
         PRINT *-----
0670
0698
069D 500 REM *********************
0603
         REM Print Window Entry This Device:
06E5
         destination≃ADDR(M Name)
         offset=devtable(DE).V_Desc+4
06F0
0703
         count=2
         60SUB 1000
0708
070F
         destination=ADDR(DevName)
         offset=M_Name+devtable(DE).V_Desc
071A
072E
         count=4
0736
         GDSUB 1000
         PRINT *----*;
073A
         ñ$=**
0767
       FOR c=1 TO 4
076E
0780
          t$=MID$(DevName,c,l)
078F
         EXITIF ASC(t$)>128 THEN
0790
         t$=CHR$(ASC(t$)-128)
07A9
           n$=n$+t.$
0785
         ENDEXIT
07B9
          n$=n$+t.$
0705
         NEXT C
0700
         PRINT ns
0705
         REM Check Device Static Memory For Type:
07F0
         destination=ADDR(temp)
0807
         offset=$06+devtable(DE).V_Stat
0818
         count=1
0823
         GDSUB 1000
         IF LAND($80, temp)=0 THEN
0827
```

```
0837
            PRINT "VDG Screen"
0845
            RETURN
          ENDIF
0847
0849
          REM Else Get Window Entry# From Static Mem:
0873
          destination=ADDR(\vec{\vec{V}}Num)
087E
          offset=$35+devtable(DE).V_Stat
0892
          count=1
089A
          GDSUB 1000
089E
          w=WNum
08A6
          offset=$1280+w$64
          count=64
0886
08BE
          destination=ADDR(WE)
0809
          60SUB 1000
08CD
          sctab=WE(0)*256+WE(1)
08E1
          PRINT "Entry# "; ₩
08F0
          IF LAND(sctab, $FF00)=$FF00 THEN
0901
             IF LAND(sctab, $FF) = $FE THEN
0912
              PRINT "Iniz'd"
0910
            ELSE
0920
              PRINT "!! DEINIZ or DWSET THIS DEVICE !!"
0945
            ENDIF
0947
          ELSE
094B
            offset=sctab
0954
            count=32
0950
            destination=ADDR(SC)
0967
            60SUB 1000
096B
            PRINT "Window Type :";
0970
            wtype=SC(0)
0988
            IF wtype=$FF THEN
0996
              PRINT "Iniz'd"
09A0
              RETURN
09A2
            ENDIF
09A4
            IF wtype>$80 THEN
0982
              ₩type=$87-₩type
098F
            ELSE
0903
              wtype=wtype+4
09CF
            ENDIF
09D1
            PRINT USING "i3>", wtype;
09DE
            PRINT *
                            "; typ$(#type)
            REM PRINT "Screen Table: ";
09F2
COAO
            REM PRINT USING "h4", sctab
0A26
            PRINT "Block Number: ":
0A39
            PRINT USING "h2",SC(1);
0A47
            IF wtype>2 THEN
              PRINT "-";
0A54
0A5A
              IF wtype=5 OR wtype=6 THEN
0A6F
                PRINT USING "h2", SC(1)+1
0A7F
              ENDIF
18A0
              IF wtype=7 OR wtype=8 THEN
0A96
                FRINT USING "h2", SC(1)+3
0AA6
              ENDIF
SAAC
            ELSE
              PRINT "
                              Offset: ";
OAAC
              PRINT USING "2(h2)", WE($34)-$80; WE($35)
OACI
OADO
            ENDIF
OADF
            IF WE(2)<>$FF THEN
              PRINT "Parent Entry: "; \ PRINT USING "i2>", VE(2);
OAEE
0810
                             Overlay ";
              PRINT "
```

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#### AUSTRALIAN 059 NEWSLETTER 0825 PRINT USING "h2", WE(\$21) 0B33 ENDIF PRINT "Window Start: "; WE(\$36); ","; WE(\$37); " 0B35 PRINT " Size : "; WE(\$38); ","; WE(\$39) 0861 PRINT "CWArea Start: "; WE(\$05); ","; WE(\$06); 0881 Size : "; WE(\$07); ","; WE(\$08) PRINT \* 0BA6 OBCA FOR prn=0 TO 7 OBDC PRINT USING "h2", SC(16+prn); 0BF0 PRINT " ": 0BF6 NEXT pro 0001 PRINT 0003 FOR prn=8 TO 15 0015 PRINT USING "h2", SC(16+prn); 0029 PRINT " "; 002F NEXT prn 0C3A PRINT 0030 ENDIF 0C3E RETURN 0C40 1000 REM Copy count at offset in datimage to destination: 0076 req.D=ADDR(SysPrc)+\$40 0088 req.Y=count 0095 req.X=offset 00A2 reg.V=destination 0CAF RUN Syscall(F CpyMem,reg) IF LAND(reg.CC, \$01)(>0 THEN 0CBE 0001 PRINT "Error " OCDB PAUSE OCDD END OCDF ENDIF RETURN 0CE1 00E3

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